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The volume contains 210 illustrations, many of which are folding inserts. A very full and well-arranged index fittingly completes the work.

AMONG THE PUBLISHERS.

ROADS and road-making are ably discussed by Capt. Francis V. Greene in the supplement to *Harper's Weekly* for Aug. 10.

— J. B. Lippincott Company will soon publish Mr. George W. Childs's "Recollections," parts of which have appeared in *Lippincott's Magazine*.

— Macmillan & Co. will publish in September a revised edition of Bryce's "American Commonwealth." It is said that ten thousand copies of this work have been sold in the United States.

— *Wood's Medical and Surgical Monographs* for September will contain a practical work on the art of embalming, something unique in our medical literature.

— A. Lovell & Co., 3 East 14th Street, New York, will publish early in September a volume on the "Honors of the Empire State in the War of the Rebellion," by Thomas S. Townsend, the compiler of the well-known "Library of National Records."

— Thomas Whittaker will publish at once a new revised and enlarged edition of King's "Classical and Foreign Quotations." The first edition was exhausted three months after its appearance, and the author has been engaged on the revision since that time.

— A lady in one of the New England towns recently returned a copy of Robert Louis Stevenson's story "The Wrong Box" to her bookseller, for the reason that the cover was "defaced by a newspaper scrap, which, although I have applied soap and water, I have been unable to remove." So much for an attempt at novelty in book-making.

— Henry Holt & Co. have in hand a second "History of the United States," the manuscript of which was left with them ready for the press by the late Professor Johnston of Princeton. It was written on a plan somewhat similar to that of his already well-known text-book, but suited to a shorter course, and perhaps to less mature minds.

— The historical treatise on Columbus, for which a prize has been offered by a Spanish commission, must be delivered to the secretary of the Royal Academy of History, at Madrid, before the 1st of January, 1892. Works written in Spanish, Portuguese, English, German, French, or Italian, may enter the competition. The two prizes amount respectively to \$5,700 and \$2,895; each of the two successful authors receiving, besides, five hundred copies of his work.

— The New Haven Colony Historical Society will publish at once a compilation of the inscriptions in the old Milford graveyard prior to 1800. The transcription will be literal, the type being varied to represent as nearly as possible the appearance of each stone. The work will fill seventy pages, and will be illustrated by facsimiles of seventeen of the most interesting stones. Genealogical notes by Mr. Nathan G. Pond, the transcriber, will be included.

— The Worthington Company have secured for America an edition of the supplementary new volumes of the Villon Society's renowned version of "The Book of the Thousand Nights and One Night." The Arabic text of two favorite stories in the collection — "Aladdin; or, The Wonderful Lamp," and "Zeyn Al Asnam and the King of the Genii" — has at last been discovered in a manuscript recently purchased by the Bibliothèque Nationale at Paris.

— Scribner & Welford have just issued the sixth volume of the Henry Irving Shakspeare, which was delayed by the illness of the editor, Mr. Frank A. Marshall. This volume contains the plays of "Othello," "Antony and Cleopatra," "Coriolanus," and "King Lear." A prefatory note explains that it was intended to print "Hamlet" here instead of one of the four plays given, but that the revision of the proofs had not been finished when Mr. Marshall's health broke down. Two new artists are represented here, the illustrations to "Antony and Cleopatra" being by Mr. Maynard Brown, and those to "Coriolanus" by Mr. W. H. Margetson. The

introductions have been written by Mr. Joseph Knight and Messrs. Wilson Verity and Arthur Symons.

— Mr. Lodge's volumes on Washington, recently published in the series of American statesmen, have been warmly praised by many critics, but perhaps the most valued approval is that from the Nestor of American historians, Hon. George Bancroft, who writes to the publishers as follows: "I like your new work on the unique man of the last century exceedingly. It is written independently, as well as with a full sense of the unique greatness of Washington. You did your part nobly, and gained honor and a claim to gratitude by publishing so valuable a volume."

— The author of "Micah Clarke," the historical novel recently published by Longmans, Green, & Co., is an English physician who is only thirty years old, and who has been a writer of magazine stories for ten years past. Dr. A. C. Doyle is a tall, athletic young man, who not only attends to a good practice and writes novels, but is a famous cricketer. He has, moreover, seen service on the West African coast, and has roughed it in a whaler. He is a nephew of Richard Doyle, the *Punch* artist, and illustrator of "The Newcomes."

— The Worthington Company, in addition to the announcements already made, are preparing the following books for the fall. First in importance is a new edition of "Taine's English Literature," with an introductory essay by Richard H. Stoddard, which enables them to copyright the book. "The Memoirs of the Count de Grammont" will be brought out as a holiday publication with photogravures and portraits. There will also be *éditions de luxe* of Macaulay's "Lays of Ancient Rome" and Main's "Treasury of English Sonnets."

— D. C. Heath & Co. have just published "Modern Facts and Ancient Fancies in Geography," a handbook for teachers, by Jacques W. Redway. This book will treat the subject in the light of modern science, and suggest some new methods of teaching this much-abused subject. They have also just ready "Topics in Geography," by W. F. Nichols. This is not a text-book, but a specific course, a systematic enumeration of the items or classes of items to be taught in each of the grades, with something of the methods of presentation, all built upon the general plan of language-work done in our schools. The "topics" have been prepared for seven grades, beginning with the lowest.

— Mr. C. H. Lee of Leesburg, Va., great-grandson of the eminent statesman Richard Henry Lee, is, according to a correspondent of the New York *Evening Post*, engaged in writing the memoirs of his illustrious ancestor. Mr. R. H. Lee was the friend of Patrick Henry, and in warm concurrence with him in disdain of the acts which led to the war of the Revolution. The Tory party had pronounced him a "political demagogue," but those on the other side, approving his resistance to oppression, hailed him as the "young reformer." The "Life and Correspondence" of R. H. Lee was published in 1829 by his grand-nephew, but the forthcoming work by a direct descendant will probably be fuller and more complete.

— A study of animal life and character is contributed by Olive Thorne Miller to the September *Popular Science Monthly* in the shape of a description of a pet lemur which the author possessed, and which represents a group of animals closely allied to the monkeys. The tariff question is discussed from a novel point of approach by Mr. Huntington Smith in "The Ethical View of Protection." The author lays down his points with considerable skill; and his article, which it is fair to say is adverse to the principle of protection, commends itself to the attention, if not to the acceptance, of readers of every shade of opinion. The number will contain an essay on the "Origin of the Rights of Property," by Henry J. Philpott. The author compares the views of a number of writers on the subject, points out wherein he thinks they are wrong, and draws his own bold and independent conclusion that the recognition of private ownership was in the beginning a truce in the war against its exercise by others. A paper by Professor Huxley bearing directly on the question involved in the recent discussion between himself and the Rev. Dr. Wace, concerning the genuineness of miracles, and entitled "The Value of Witness to the Miraculous," will also appear.

— F. A. Davis of Philadelphia has in press a new work on the "Practical Applications of Electricity in Medicine and Surgery," by Dr. G. A. Liebig, jun., of Johns Hopkins University, and Professor George H. Rohé of the College of Physicians and Surgeons, of Baltimore. The part on physical electricity, written by Dr. Liebig, one of the recognized authorities on the science in the United States, will treat fully such topics of interest as storage-batteries, dynamos, the electric light, and the principles and practice of electrical measurement in their relations to medical practice. Professor Rohé, who writes on electro-therapeutics, discusses at length the recent developments of electricity in the treatment of stricture, enlarged prostate, uterine fibroids, pelvic cellulitis, and other diseases of the male and female genito-urinary organs. The applications of electricity in dermatology, as well as in the diseases of the nervous system, are also fully considered. The work will be fully illustrated by engravings and original diagrams.

— The last regular article in the railway series will be contributed to *Scribner's Magazine* for September by H. G. Prout, editor of the *Railroad Gazette*, who will write of "Safety in Railroad Travel," explaining in a popular way many of those ingenious devices which have come into general use and have made railway

travel the safest form of locomotion except walking. This article, which will be very fully illustrated, will explain, among other things, the Westinghouse air-brake, and complicated system of semaphore signals and interlocking switches, and crossing-gates, detector-bars, and automatic couplers. W. Hamilton Gibson will write on "Night Witchery," describing what may be seen of nature on a very dark night with other organs of sense than the eye. The article will be illustrated with a number of Mr. Gibson's most characteristic drawings. A. R. Macdonough will contribute the fourth paper in the fishing series, entitled "Nepigon River Fishing," in which he will describe one of the most attractive spots in Canada for all lovers of good sport. Lake Nepigon is two-thirds as large as Lake Ontario, filled with picturesque islands, and with strangely irregular shores. It is some distance from the line of the Canadian Pacific Road. Professor George Trumbull Ladd of Yale College will have in the number a very timely article on the "Place of the Fitting-School in American Education," in which he discusses certain plans for enabling the preparatory schools of the country to accomplish much better work than is now possible, so that they may send out their pupils as well educated at eighteen as they now are at twenty. Such changes he believes necessary in order to effectively raise the standard of American universities.

INDUSTRIAL NOTES.

Electrical Apparatus for Medical and Surgical Purposes.

THE engravings given herewith illustrate two pieces of electrical apparatus, manufactured by Charles Reitz of Indianapolis, and intended for the use of physicians and surgeons.

The office battery, shown in Fig. 1, is furnished with thirty-six

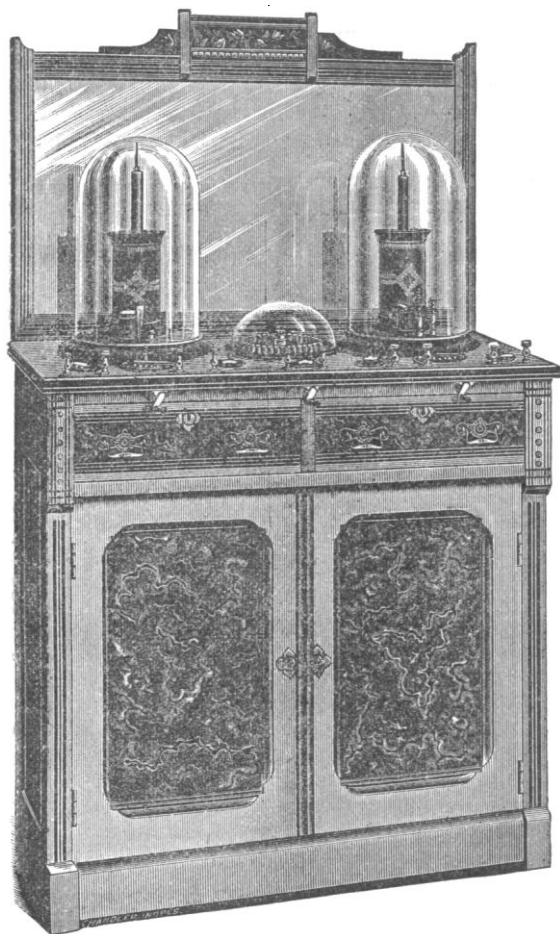


FIG. 1. — REITZ'S ELECTRICAL APPARATUS.

zinc-carbon cells, for galvanic current, and two electro-magnetic machines. The manufacturer claims that the battery may be used daily for a year without refilling. The cells are so arranged in the lower part of the case, that, when removed for refilling, no mistakes in connections can be made when returning them to their places.

The jars are $3\frac{1}{2}$ inches square by $5\frac{1}{2}$ high. The porous cups are $1\frac{1}{4}$ inches in diameter and $4\frac{1}{2}$ inches high. The cells are connected to a hard-rubber switch-board in such a way that one cell after another may be added to the circuit, giving a current of any intensity, from that of one cell to the full power of the battery.

Each electro-magnetic machine has two large cells of battery of a capacity sufficient to run the machine from three to five hours with one filling, and they are so connected by a switch-lever on top that one or both cells may be used. The machines are kept covered by glass shades, the regulating-tubes in the coils being raised or lowered by turning a small crank in front of the case, the shades thus not requiring removal.

A magneto-electric generator and small incandescent lamp are shown in Fig. 2. The armature is of the Siemens type, $3\frac{1}{2}$ inches

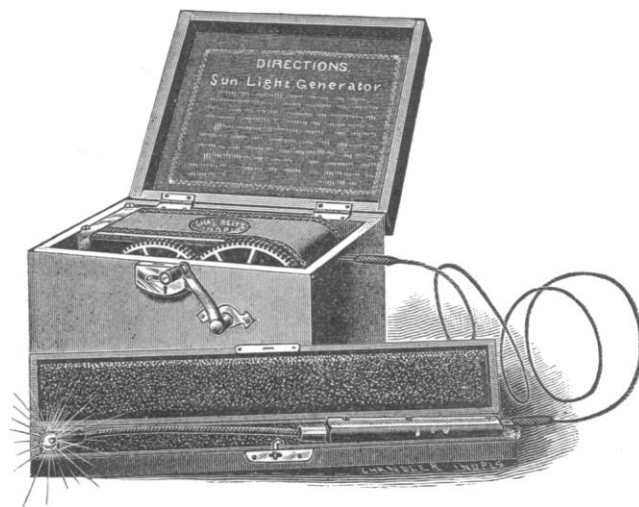


FIG. 2. — REITZ'S ELECTRICAL APPARATUS.

long and $1\frac{1}{2}$ in diameter, with $\frac{3}{8}$ -inch bearings running in phosphor-bronze boxes. The lamp is one-half candle-power, and is mounted in a hard-rubber socket on the end of a flexible stem. It is a neat and convenient apparatus for the use of medical men.

Electric Motors.

The C. & C. Electric Motor Company of this city have just taken a contract to furnish a notable power-equipment for the works of the Hickox Manufacturing Company, ruling-machine makers of Harrisburg, Penn. The power-plant will consist of four C. & C. electric motors, three being of 20 horse-power, and one of 15 horse-power. The current to operate them will be taken from the Edison central lighting station. This installation is notable, both because of the amount of power used from large motors, and the fact that it is all derived from a central station.